

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 10305590
PUBLICATION DATE : 17-11-98

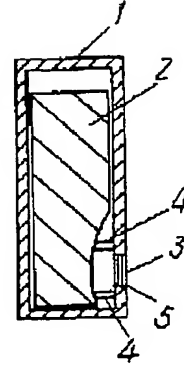
APPLICATION DATE : 08-05-97
APPLICATION NUMBER : 09117850

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INT.CL. : B41J 2/175

TITLE : SENSOR FOR DETECTING AMOUNT
OF REMAINING INK



ABSTRACT : PROBLEM TO BE SOLVED: To provide a sensor for detecting the amount of remaining ink in an ink cartridge used in an ink-jet recording apparatus which can correctly detect the amount even when a sponge-like ink-absorbing body is set inside the ink cartridge.

SOLUTION: The sensor includes a diaphragm bonded to a piezoelectric element. A predetermined distance is secured between the diaphragm and an ink-absorbing body 2 to prevent the diaphragm from coming in touch with the ink-absorbing body 2 set inside an ink cartridge and impregnated with ink even when the diaphragm comes in touch with the ink in the cartridge. In this state, a sensor element 3 is held at the ink cartridge.

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